Application/Control No. Applicant(s)/Patent under Index of Claims Reexamination 09/777,989 CHESTER ET AL. Examiner Art Unit Hal D. Wachsman 2857 (Through numeral) Cancelled Rejected Non-Elected Appeal N Α 0 Allowed Restricted Objected Interference

| E      | Claim Date                                       |               |          |  |          |  |              | Claim Date                                       |          |                 |          |              |     |  | 7  | CI       | aim      | Γ             | Date      |          |   |           |              |     |  |                 |          |                |          |          |          |              |          |
|--|--|---------------|----------|--|----------|--|--------------|--|----------|-----------------|----------|--------------|-----|--|--|----------|----------|---------------|-----------|----------|---|-----------|--------------|-----|--|-----------------|----------|----------------|----------|----------|----------|--------------|----------|
| S  |  |               |          |  | Date     |  |              |  |          |                 |          |              |     |  |  |          |          |               |           |          |   | 1         |              |     |  |                 |          |                |          |          |          | コ            |          |
| S  | <del>-</del>                                     | na            | 9        | i  |          |  |              |  |          |                 |          | <del>-</del> | E   | 1  | ΙI   | - 1      |          | - 1           |           |          |   | 1         | <del> </del> | 2   |  | li              |          |                |          |          |          |              |          |
| S  | Ë  | iĝi           | ~        |  |          |  |              |  |          |                 |          | [ .⊑         | ij  | 1  | ΙI   | - 1      |          | 1             |           | - 1      |   |           | ≟            | ΞĒ  |  |                 |          |                |          |          |          |              |          |
| S  | ш.   | ŏ             | ]_       |  |          |  |              |  |          |                 |          | "            | ŏ   | 1  | ΙI   | -        |          | 1             |           |          |   |           | "            | ŏ   |  |                 |          |                |          |          |          |              |          |
| 3  |  |               | 5        | <u> </u>   | $\vdash$ |  | ├            | ⊢  | -        | Н               |          |              |     | ┼  | $\vdash$   |          |          |               | +         | +        | -   | 4         | <u> </u>     |     | <u> </u>   | Щ               |          | Н              |          |          |          |              |          |
| 3   C  |  |               |          | ļ  |          | <u> </u>   | ┞            | ┞  | ┞        | Ш               | _        |              |     | ╀  | $\sqcup$   | _        |          | $\rightarrow$ | -         | 4        |   | 4         |              |     | _  |                 | _        |                |          | Ш        |          | _            | _        |
| 4  |  |               |          | _  |          |  | _            | 辶  | L        | Ш               |          | <u> </u>     |     | ↓_   | -  | _        | _        | _             | _         | _        | _   | 4         |              |     | _  | Ш               |          | Щ              |          |          |          | _            |          |
| S  |  | $\overline{}$ |          | _  |          |  | <u> </u>     | _  | <u> </u> | Ш               | _        | - └          | 53  | Щ  | Ш  |          | _        | _             | _         | 4        |   | - ↓       |              |     | L  |                 |          | Щ              |          |          |          |              |          |
| 6  |  | 4             |          |  |          |  |              |  |          |                 |          |              |     |  | Ш  | _        |          |               |           | $\perp$  |   | ╛         |              |     |  |                 |          |                |          |          |          |              |          |
| 107  |  | 5             | 1-1      |  |          |  |              |  |          |                 |          |              |     |  |  | [        |          |               |           |          |   | J         |              |     |  |                 |          |                |          |          |          |              |          |
| 8  |  | 6             | 1-1      |  |          |  | İ            |  |          |                 |          |              | 56  | <u>L</u>   |  | [        |          |               | - 1       |          |   | 1         |              | 106 |  |                 |          |                |          |          |          |              |          |
| 9  |  | 7             | =        | l  |          |  | Γ            | Π  | Π        |                 |          |              | 57  | П  |  | T        |          |               | Ŧ         |          |   | 7         |              | 107 |  |                 |          |                |          |          |          |              |          |
| 9  |  | 8             |          | Г  |          |  | $\Box$       | <u> </u>   |          |                 |          |              |     | T  | П  | 一        |          | $\neg$        |           | $\dashv$ | 一厂  | 7         |              |     |  |                 |          |                |          |          |          | T            | ╗        |
| 10   |  | 9             |          | Г  | _        |  |              | T  |          | П               | $\neg$   |              |     | $\top$   |  | 寸        |          |               | $\neg$    | 寸        | $\neg$  | 7         |              |     |  |                 |          |                |          |          |          | $\neg$       | ヿ        |
| 11   |  |               | _        | <del>                                     </del> |          | _  |              | Ħ  | Г        | П               |          |              |     | 1  |  | _        |          | 7             | $\dashv$  | 十        | $\neg$  | ┪         |              |     |  | П               |          |                |          |          |          | $\neg$       | $\neg$   |
| 12   |  |               | _        | Ι  | Н        | $\vdash$   | $\vdash$     | Н  | Н        | Н               | $\dashv$ | <u> </u>     |     | +-   | $\vdash$   | ᅱ        | $\dashv$ | $\dashv$      | -+        | -+       | +   | 1         | $\vdash$     |     |  | Н               |          | Н              | $\vdash$ | -1       | $\dashv$ |              | ᅱ        |
| 13   |  |               |          | $\vdash$   | Н        | $\vdash$   | ┢            |  | $\vdash$ | H               | $\dashv$ |              |     | +-   |  | $\dashv$ | $\dashv$ | +             | $\dashv$  | -+       | +   | $\dashv$  | $\vdash$     | 112 | $\vdash$   | $\vdash$        |          | $\dashv$       | $\dashv$ | -        | -        |              | $\dashv$ |
| 1  | <del>                                     </del> |               |          | <del> </del>                                     | Н        | $\vdash$   | $\vdash$     | $\vdash$   | $\vdash$ | $\vdash \vdash$ | $\dashv$ | -            |     | +  | $\vdash \dashv$                                  | ᅱ        | $\dashv$ | $\dashv$      | $\dashv$  | +        | +   | $\exists$ | <b>—</b>     |     | -  |                 | -        | $\vdash$       | $\dashv$ | $\vdash$ | -        | $\dashv$     | $\dashv$ |
| 15   | <b></b>  |               | -        | <del> </del>                                     |          |  | ├-           | $\vdash$   | $\vdash$ | $\vdash \vdash$ | $\dashv$ | $\vdash$     |     | +-   | $\vdash \vdash$                                  | $\dashv$ | -+       | $\dashv$      | $\dashv$  | $\dashv$ | $\dashv$  | $\dashv$  | -            |     | -  |                 |          | $\vdash$       | $\dashv$ | $\vdash$ | $\dashv$ |              | $\dashv$ |
| 15   |  |               | —        | $\vdash$   | $\vdash$ |  | +-           | $\vdash$   | $\vdash$ | $\vdash$        | $\dashv$ | $\vdash$     |     | $\vdash$   | $\vdash$   |          | -+       | $\dashv$      | $\dashv$  | -+       |   | -         | -            |     | $\vdash$   | $\vdash \vdash$ | $\vdash$ | $\vdash$       | $\dashv$ | $\vdash$ | $\dashv$ |              |          |
| 17   | <b></b>  |               | _        | <del>                                     </del> | H        | <del>                                     </del> | ⊬            | ⊢  | ├        |                 | $\dashv$ | $\vdash$     |     | +  | $\vdash$   | $\dashv$ | $\dashv$ |               | $\dashv$  | $\dashv$ |   | ┥         |              |     |  |                 | -        |                |          |          | -        | -            |          |
| 18   | <u> </u>   |               | <u> </u> | -  | Н        | <del> </del>                                     | $\vdash$     | <u> </u>   | <u> </u> | $\vdash$        |          | -            |     | +  | ${oxed}$   |          | $\dashv$ |               | -         | -        | -   | 4         | <u> </u>     | 116 |  | Н               | <u> </u> | Щ              | $\dashv$ | -        | _        | _            | $\dashv$ |
| 19   | <u> </u>   |               | <u> </u> | <u> </u>   | Щ        | <u> </u>   | ₩            | <u> </u>   | <u> </u> | $\vdash$        | _        |              |     | 1  | Н  | _        | _        | _             |           | _        | _   | 4         | <u> </u>     |     | _  | Ш               | _        | Ш              | Ш        | $\Box$   |          | _            |          |
| 120  |  |               |          | _  |          |  | Ļ            | _  | L        | Ш               | _        | <u> </u>     |     | ↓_   |  | _        | _        | _             | _         | 4        |   | 4         |              | 118 |  |                 |          |                |          |          |          |              | _        |
| 21     71     121     122     122     123     123     123     124     124     124     124     124     124     124     125     126     126     126     126     126     127     127     127     127     127     127     127     128     129     129     129     130     130     130     130     130     130     130     130     131     131     131     131     132     132     132     132     133     134     134     134     134     134     134     134     134     135     135     135     135     136     136     137     137     137     137     137  |  |               |          | L  |          |  | <u> </u>     |  | L        |                 |          | L            |     | <u> </u>   |  | _        |          |               |           |          |   | ┙         | L            |     |  |                 |          |                |          |          |          |              |          |
| 22     122     123     124     124     124     124     124     125     125     125     125     125     126     126     127     126     127     127     128     128     129     128     129     129     129     129     129     130     131     130     131     130     131     131     131     132     132     132     132     132     133     134     134     134     134     134     134     134     134     134     134     135     135     136     136     136     136     136     137     137     137     137     137     137     137     137 |  | 2D            |          | L  |          | L_   | <u> </u>     |  |          | Ш               | _        | L            |     | <u> </u>   |  |          | $\Box$   | $\Box$        |           |          | $\perp$   | _         |              |     |  |                 |          |                |          |          |          |              |          |
| 28   73   74   123   124   125   125   126   125   126   126   126   126   126   127   127   127   127   127   127   128   129   129   130   130   131   131   131   131   131   131   131   131   132   132   132   133   134   134   134   134   134   134   134   134   134   134   134   135   135   136   137   137   138   138   139   139   139   140   140   141   141   141   141   141   141   141   141   142   142   142   143   144   144   144<  |  | 2             |          |  |          | _  | <u> </u>     |  |          |                 |          | L            |     | <u> </u>   |  |          |          |               |           |          |   | ╛         |              | 121 |  |                 |          |                |          |          |          |              |          |
| 24     74     124     125     125     125     126     126     126     127     127     127     128     127     128     129     129     129     129     130     130     130     131     130     131     130     131     131     131     132     132     132     132     133     133     133     133     133     133     134     134     134     134     134     134     135     136     136     136     137     137     137     137     138     138     138     138     138     138     138     138     138     139     140     141     141     141     142     143     144     144     144     144     144     144     144     144     144     145     146     147     148     149     149     149     149     149     149     149     149     149     149     149     149     149     149     149  |  | 22            |          |  |          |  |              |  |          |                 |          |              |     | 100  |  |          |          |               |           |          |   |           |              |     |  |                 |          |                |          |          |          |              |          |
| 24     74     124     125     125     125     126     126     126     127     127     127     128     127     128     129     129     129     129     130     130     130     131     130     131     130     131     131     131     132     132     132     132     133     133     133     133     133     133     134     134     134     134     134     134     135     136     136     136     137     137     137     137     138     138     138     138     138     138     138     138     138     139     140     141     141     141     142     143     144     144     144     144     144     144     144     144     144     145     146     147     148     149     149     149     149     149     149     149     149     149     149     149     149     149     149     149  |  | 2β            |          |  |          |  |              |  |          |                 |          |              | 73  |  |  |          | Ī        |               |           | T        |   | 7         |              | 123 |  |                 |          |                |          |          |          |              | ╗        |
| 25   75   125   126   126   126   127   127   128   127   128   128   129   129   130   130   130   131   131   132   133   131   131   131   132   132   133   133   133   133   133   133   133   133   133   133   133   133   134   134   135   135   135   135   136   137   137   137   137   138   139   139   140   140   141   141   142   142   142   143   144   143   144   144   145   146   147   148   148   148   149  |  | 24            |          |  |          | Г  |              |  |          |                 |          |              | 74  |  |  | $\Box$   |          |               |           | П        | $\top$  | 7         |              | 124 |  |                 |          |                |          |          |          |              | $\neg$   |
| 26     76     126     127     128     127     128     127     128     127     128     129     129     129     129     130     130     131     131     131     131     132     132     132     132     133     133     133     133     133     133     134     134     134     134     134     134     134     135     135     136     136     136     136     136     137     138     138     138     139     140     140     140     141     141     141     141     142     143     144     144     144     144     144     144     144     145     146     147     148     148     148     148     148     149  |  | 25            |          |  |          | Г  | П            |  |          |                 |          |              | 75  |  |  | $\neg$   |          | $\neg$        | $\neg$    | $\Box$   |   | 7         |              | 125 |  |                 |          |                |          |          |          | $\neg$       | П        |
| 27   |  | 26            |          |  |          |  |              |  |          |                 | $\neg$   |              | 76  |  |  | 丁        | $\Box$   | $\neg$        | П         |          |   | 7         |              | 126 |  |                 |          |                |          |          |          |              |          |
| 28 78 128   29 80 130   30 81 131   31 81 131   32 82 132   33 83 133   34 84 134   35 85 135   36 86 136   37 87 137   38 88 138   39 90 140   41 91 141   42 92 142   43 93 143   44 94 144   45 96 146   47 97 147   48 98 149  |  | 27            |          |  |          | Г  |              |  |          |                 |          |              |     |  |  |          | $\neg$   | $\neg$        | $\neg$    |          | 7   | ٦         |              |     |  |                 |          |                |          |          |          |              | ヿ        |
| 29     79     129       30     80     130       31     81     131       32     82     132       33     83     133       34     84     134       35     85     135       36     86     136       37     87     137       38     88     138       39     89     139       40     90     140       41     91     141       42     92     142       43     93     143       44     94     144       45     95     145       46     96     146       47     97     147       48     98     148       49     99     149  |  | 28            |          | _  |          |  |              |  |          |                 |          |              |     | 1  |  |          | 7        | $\neg$        | 寸         | $\dashv$ | $\dashv$  | 7         |              | 128 |  |                 |          |                |          |          |          |              | ヿ        |
| 30   |  | 29            |          |  |          | _  | <b>-</b>     |  |          |                 |          |              |     | 1  | П  | _        |          | $\neg$        | 7         | _        |   | 1         |              |     |  | П               |          |                |          |          |          |              | $\dashv$ |
| 31   81   131   132   132   133   133   133   133   133   133   133   133   133   133   133   133   133   134   134   134   135   135   135   135   135   135   136   135   136   137   137   137   137   137   137   137   137   138   138   138   139   139   140   140   140   141   140   141   141   141   141   142   142   143   144  |  | 36            |          | <u> </u>   | _        |  |              | <del>                                     </del> |          | Н               | _        |              |     | <del>                                     </del> |  | $\dashv$ | 寸        | 一             | $\dashv$  | $\dashv$ | _   | ٦.        |              | 130 |  |                 | _        |                | $\dashv$ |          |          | _            | ᅱ        |
| 32   82   132   133     34   83   133   134     35   85   135   135     36   86   136   137     38   88   138   138     39   88   139   139     40   90   140   141     41   91   141   141     42   92   142   143     43   93   143   143     44   94   144   144     45   96   146   147     46   96   148   148     49   99   149   149  |  |               |          | H  | -        | H  | i –          |  | 1        | $\vdash$        | $\dashv$ |              |     | +  |  | ┪        | -        | $\dashv$      | $\dashv$  | $\dashv$ | +   | ┥         | ļ            |     |  |                 | -        |                | $\dashv$ |          |          | <del>-</del> | $\dashv$ |
| 33 133   34 134   35 84   36 86   37 88   38 87   39 88   40 90   41 91   42 92   43 93   44 94   44 94   45 96   46 96   47 97   48 98   49 99  | _  |               |          | H  |          | $\vdash$   | <del> </del> | $\vdash$   | -        |                 |          |              |     | +-   | $\vdash$   | ┪        | $\dashv$ | $\dashv$      | +         | $\dashv$ | +   | ┨         | -            |     |  | $\vdash$        | -        | -              |          | -        | -        | -            | $\dashv$ |
| 34   84   134   135     35   85   135   136     36   86   136   137     38   87   137   137     38   88   138   139     40   90   140   141     41   91   141   142     43   92   142   143     44   94   144   144     45   95   145   146     47   97   147   148     48   98   148   149  | <del></del>                                      | 33            |          | Н  |          | $\vdash$   | ┢            |  |          |                 | $\dashv$ |              |     | +-   | $\vdash$   | -        | $\dashv$ | -             | -+        | $\dashv$ | $\dashv$  | ┨         | -            | 133 | -  | $\vdash$        |          | Н              | $\dashv$ |          | -        | -            |          |
| 35 85   36 135   37 88   38 137   38 88   39 90   40 91   41 91   42 92   43 93   44 94   45 95   46 96   47 97   48 98   49 148   49 149  | $\vdash \vdash$                                  | 34            |          | H  | $\dashv$ | $\vdash$   | ╁            |  | H        |                 |          |              |     | +-   | $\vdash$   | $\dashv$ | $\dashv$ | ┥             | -+        | $\dashv$ | +   | -         | -            |     | -  | $\vdash$        |          | $\vdash$       | $\dashv$ | $\vdash$ | $\dashv$ |              | $\dashv$ |
| 36   86   136     37   87   137     38   88   138     39   90   140     41   91   141     42   92   142     43   93   143     44   94   144     45   95   145     46   96   146     47   97   147     48   98   148     49   99   149  |  |               |          | -  |          | $\vdash$   | ╁            | $\vdash$   | $\vdash$ | Н               | $\dashv$ | -            |     | ╁  | $\vdash$   |          | -+       | $\dashv$      | +         | $\dashv$ | +   | $\dashv$  | -            |     | $\vdash$   | $\vdash$        | $\vdash$ | Н              |          | -        | -        | -            | $\dashv$ |
| 37   87   137     38   88   138     39   90   139     40   91   140     41   91   141     42   92   142     43   93   143     44   94   144     45   95   145     46   96   146     47   97   147     48   98   149  | $\vdash$   |               | _        | $\vdash$   | $\dashv$ | $\vdash$   | ├            | -  | -        | -               | $\dashv$ |              |     | +-   | <del>                                     </del> | -        | $\dashv$ | $\dashv$      | +         | $\dashv$ | -+-   | $\dashv$  |              |     | $\vdash$   | $\vdash$        | _        | $\vdash\vdash$ |          | -        | $\dashv$ |              | $\dashv$ |
| 38   39     40   90     41   91     42   92     43   93     44   94     45   95     46   96     47   97     48   98     49   149   | <u> </u>   |               |          | $\vdash$   | $\vdash$ | -  | ├—           | $\vdash$   | $\vdash$ | $\vdash \vdash$ |          | <u> </u>     |     | +  | $\vdash \vdash$                                  | $\dashv$ | $\dashv$ |               | +         | +        | +   | 4         | ļ            |     | H  | $\vdash$        |          | Н              |          |          | -        |              | ᅴ        |
| 39   89   139     40   90   140     41   91   141     42   92   142     43   93   143     44   94   144     45   95   145     46   96   146     47   97   147     48   98   148     49   99   149  | <u> </u>   |               | -        | -  | $\vdash$ | <u> </u>   | ├            | ⊢  | -        | $\vdash$        |          |              |     | ┼-   | $\vdash$   | _        | $\dashv$ | $\dashv$      | +         | -        |   | 4         | <b></b>      |     | Ь  | $\vdash \vdash$ | <b> </b> | Ш              | _        | $\vdash$ | $\dashv$ |              |          |
| 40   90   140     41   91   141     42   92   142     43   93   143     44   94   144     45   95   145     46   96   146     47   97   147     48   98   148     49   99   149  | <u> </u>   |               |          | <u> </u>   | $\vdash$ | <u> </u>   | ├            | $\vdash$   | -        | $\vdash$        | _        |              |     | +-   | $\vdash$   | _        | _        | $\dashv$      | +         | +        | -   | 4         | <b> </b>     |     | $\vdash$   | $\square$       |          | Н              | _        | $\Box$   | _        | _            |          |
| 41   91   141   142     42   92   142   142     43   93   143   143     44   94   144   144     45   95   145   146     46   96   146   147     48   98   148   148     49   99   149   149  | <b> </b>   |               |          | Н  | $\Box$   | _  | -            | <u> </u>   |          | $\vdash$        | _        |              |     |  | $\vdash$   |          | _        |               | +         | $\dashv$ | +   | 4         | <u> </u>     |     | L  | $\sqcup$        | <b> </b> |                | _        | _        | -        | _            | _        |
| 42 92   43 93   44 94   45 95   46 96   47 97   48 98   49 99  | <b> </b>   |               |          | H  |          |  | L.           | ļ  |          | $\sqcup$        | _        |              |     | ↓_   |  |          | _        | _             | +         | -        | +   | 4         | <u> </u>     |     | <u> </u>   | $\vdash$        | <u> </u> | Щ              |          |          | $\dashv$ | _            | _        |
| 43 93 143   44 94 144   45 95 145   46 96 146   47 97 147   48 98 148   49 99 149  | <u> </u>   |               |          | <u> </u>   |          | <u> </u>   | <u> </u>     |  |          | $\vdash \vdash$ |          | <u> </u>     |     | -  | $\vdash$   |          | _        | _             |           | -        | _   | 4         | $\vdash$     | 141 | <u> </u>   | $\square$       | ļ.,      | $\square$      |          | -        | _        | _            |          |
| 44 94   45 95   46 96   47 97   48 98   49 99  | L  |               |          | L  |          | <u> </u>   | <u> </u>     | <u> </u>   | _        | $\square$       | _        | <u> </u>     |     | _  | $\sqcup$   |          |          |               | _         | _        | _   | 4         | $\vdash$     | 142 | $\perp$  |                 |          | Ш              |          |          | _        |              |          |
| 45 95   46 96   47 97   48 98   49 99  |  |               |          | L  |          | L_   | <u></u>      | $ldsymbol{ldsymbol{ldsymbol{eta}}}$              |          | $\square$       | _        |              | 93  | 1_   | $\sqcup$   |          |          | _             |           | _        | $\perp$   | 1         | <u> </u>     |     | $oxed{oxed}$   |                 | Ш.       |                |          |          |          | _            |          |
| 46 96   47 97   48 98   49 148   | L  |               |          | L  |          |  | <u> </u>     |  |          | Ш               |          |              |     | _  |  |          |          |               |           | $\dashv$ |   | 4         |              | 144 | $ldsymbol{ld}}}}}}$ | $\Box$          |          |                |          |          |          | _            | Ц        |
| 47   | L  |               |          | L  |          |  | L            | Ш  | Ш        | Ш               |          |              |     | _  | $\sqcup$   | $\perp$  | _        | $\perp$       | _         |          | _ _   | 4         | <u></u>      |     |  |                 |          |                |          |          |          |              |          |
| 48 98 148 149 99 149 149 149 1   |  |               |          |  |          |  | <u> </u>     | L  |          |                 |          |              |     | L  |  |          |          |               | $\perp$   | $\perp$  | $\bot$  | _         |              | 146 | لــــا   |                 |          |                |          |          |          |              |          |
| 49 99 149 149  | L  |               |          |  |          |  | <u> </u>     | L  |          | Ш               |          |              |     | _  |  |          |          |               |           |          |   | _         |              |     |  |                 |          |                | ]        |          |          | $\Box$       |          |
| 49 99 149 149  | ـــــا   |               |          |  |          |  |              |  |          |                 |          |              |     | L  |  | $\Box$   | J        | $\Box$        | $oxed{J}$ | $\Box$   | $\Box$  |           |              | 148 |  |                 |          |                |          |          |          |              | _7       |
| 50   |  | 49            |          |  |          |  |              |  | Ĺ        |                 |          |              | 99  |  |  | $\Box$   | $\Box$   | $\Box$        | $\Box$    | $\Box$   |   | ]         |              | 149 |  |                 |          |                |          |          |          |              |          |
| <del>, , , , , , , , , , , , , , , , , , , </del>  |  | 50            |          |  |          |  | 匚            |  |          |                 |          |              | 100 |  |  | $\Box$   |          |               |           | $\Box$   | $oldsymbol{oldsymbol{oldsymbol{oldsymbol{\Gamma}}}$ | ]         |              | 150 |  |                 |          |                |          |          |          | _7           |          |